Emerging Technology Ejector Vapor Recovery Units



Murphy Exploration and Production,

Gulf Coast Environmental Affairs Group,

American Petroleum Institute and

EPA's Natural Gas STAR Program

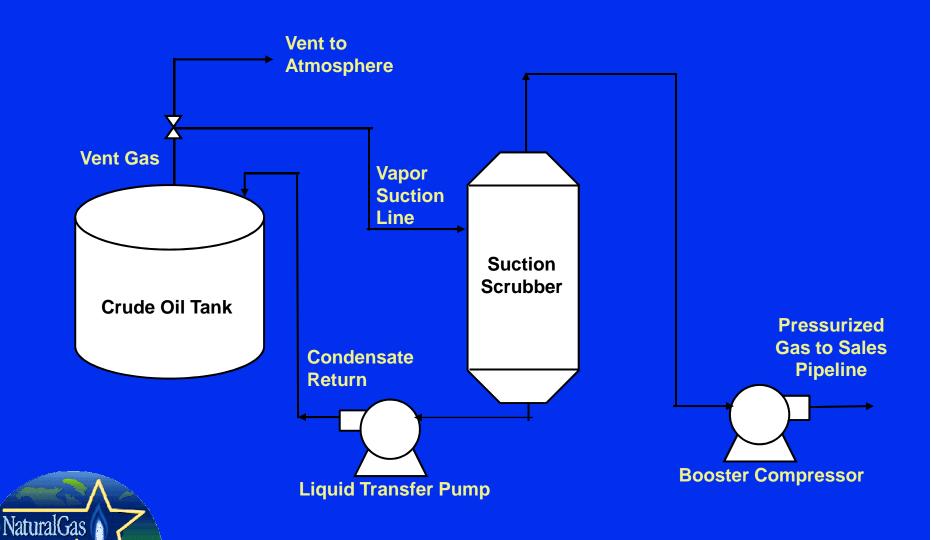
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Vapor Recovery Units

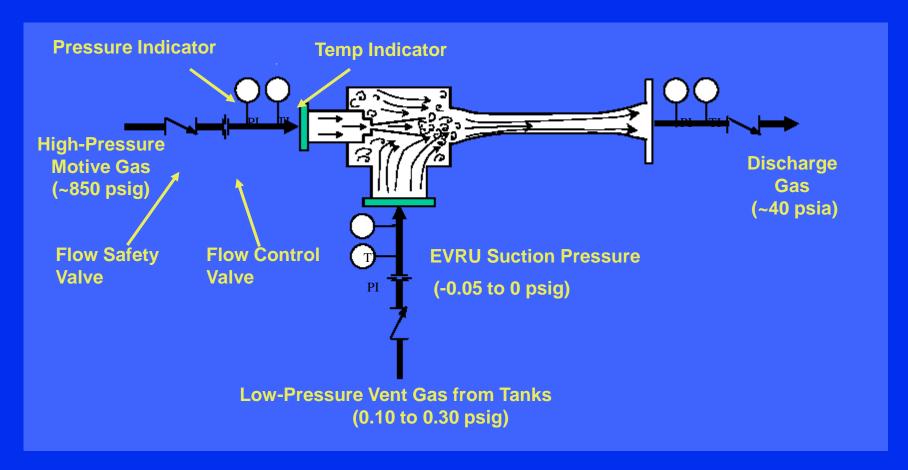
- Conventional Vapor Recovery Unit
- □ Venturi Jet Ejector
- Vapor Recovery with Ejector
- □ Trade Offs
- Benefits of Vapor Recovery Units



Conventional Vapor Recovery Unit

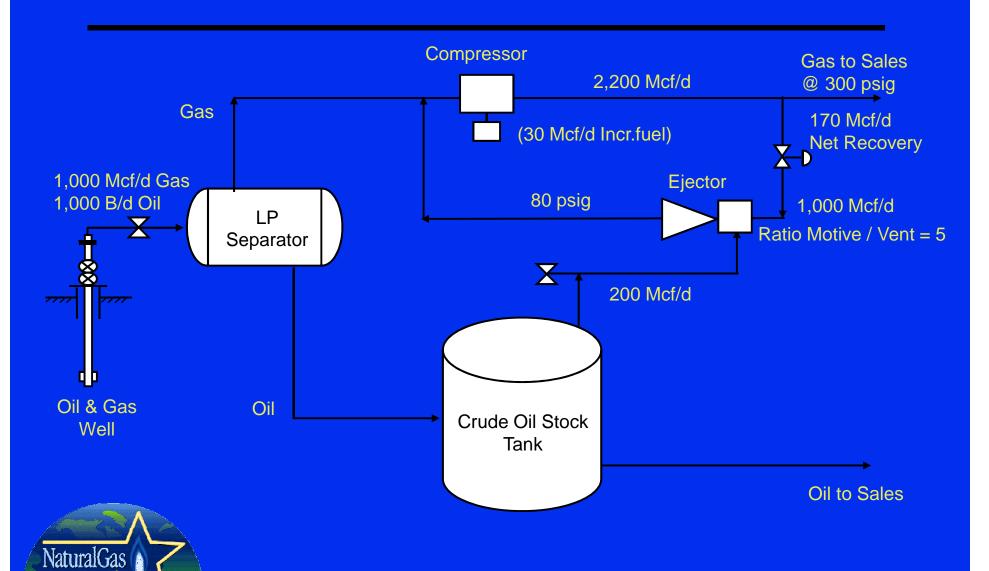


Venturi Jet Ejector





Vapor Recovery with Ejector



Trade Offs

	Conventional VRU	Ejector
Electricity	\$3,000/year	_
Fuel	_	\$60/year
Spare Compressor HP	_	500
Maintenance	High	Low
Capital Cost per recovered Mcf/year	\$0.70	\$0.03
Payback	< 4 months	< 1 month



Benefits of Vapor Recovery Units

- □ Capture up to 95 percent of hydrocarbon vapors that accumulate in tanks
- Recovered vapors often have higher Btu content than pipeline quality natural gas
- □ Recovered vapors can be more valuable than methane alone

